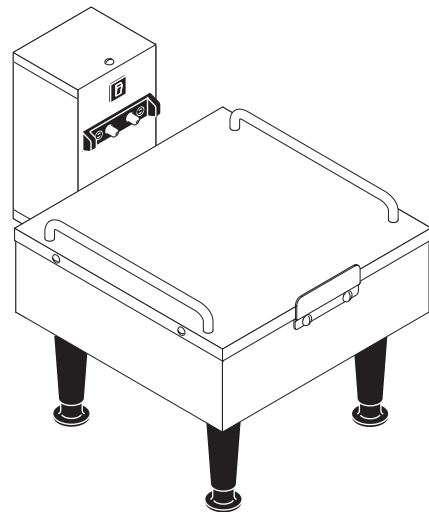
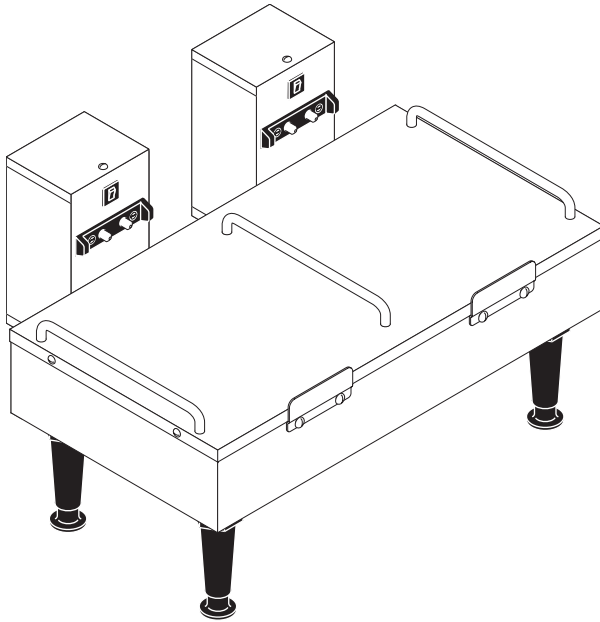


BUNN®

1SH & 2SH STAND



OPERATING & SERVICE MANUAL

BUNN-O-MATIC CORPORATION

POST OFFICE BOX 3227

SPRINGFIELD, ILLINOIS 62708-3227

PHONE: (217) 529-6601 FAX: (217) 529-6644

To obtain the Illustrated Parts Catalog, visit the Bunn-O-Matic website, at www.bunn.com. This is absolutely FREE, and the quickest way to obtain the catalog. Contact Bunn-O-Matic Corporation at 1-800-286-6070 to obtain a paper copy of the required Illustrated Parts Catalog mailed via U.S. Postal Service.

WARRANTY

Bunn-O-Matic Corp. ("Bunn") warrants the equipment manufactured by it to be commercially free from defects in material and workmanship existing at the time of manufacture and appearing within one year from the date of installation. In addition:

1.) Bunn warrants electronic circuit and/or control boards to be commercially free from defects in material and workmanship for two years from the date of installation.

2.) Bunn warrants the compressor on refrigeration equipment to be commercially free from defects in material and workmanship for two years from the date of installation.

3.) Bunn warrants that the grinding burrs on coffee grinding equipment will grind coffee to meet original factory screen sieve analysis for three years from date of installation or for 30,000 pounds of coffee, whichever comes first.

This warranty does not apply to any equipment, component or part that was not manufactured by Bunn or that, in Bunn's judgement, has been affected by misuse, neglect, alteration, improper installation or operation, improper maintenance or repair, damage or casualty.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTY, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF EITHER MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The agents, dealers or employees of Bunn are not authorized to make modifications to this warranty or to make additional warranties that are binding on Bunn. Accordingly, statements by such individuals, whether oral or written, do not constitute warranties and should not be relied upon.

The Buyer shall give Bunn prompt notice of any claim to be made under this warranty by telephone at (217) 529-6601 or by writing to Post Office Box 3227, Springfield, Illinois, 62708-3227. If requested by Bunn, the Buyer shall ship the defective equipment prepaid to an authorized Bunn service location. If Bunn determines, in its sole discretion, that the equipment does not conform to the warranty, Bunn shall repair the equipment with no charge for parts during the warranty period and no charge for labor by a Bunn Authorized Service Representative during the warranty period. If Bunn determines that repair is not feasible, Bunn shall, at its sole option, replace the equipment or refund the purchase price for the equipment.

THE BUYER'S REMEDY AGAINST BUNN FOR THE BREACH OF ANY OBLIGATION ARISING OUT OF THE SALE OF THIS EQUIPMENT, WHETHER DERIVED FROM WARRANTY OR OTHERWISE, SHALL BE LIMITED, AS SPECIFIED HEREIN, TO REPAIR OR, AT BUNN'S SOLE OPTION, REPLACEMENT OR REFUND.

In no event shall Bunn be liable for any other damage or loss, including, but not limited to, lost profits, lost sales, loss of use of equipment, claims of Buyer's customers, cost of capital, cost of down time, cost of substitute equipment, facilities or services, or any other special, incidental or consequential damages.

USER NOTICES

The notice on the stands should be kept in good condition. Replace if unreadable or damaged.

00986.0000

⚠ WARNING
DO NOT OVERLOAD CIRCUIT. ALWAYS ELECTRICALLY GROUND THE CHASSIS OR ADAPTOR PLUG. DO NOT DEFORM PLUG OR CORD. FOLLOW NATIONAL AND LOCAL ELECTRICAL CODES. KEEP COMBUSTIBLES AWAY.
FAILURE TO COMPLY RISKS EQUIPMENT DAMAGE, FIRE OR SHOCK HAZARD.
READ THE ENTIRE OPERATING MANUAL BEFORE USING THIS PRODUCT
00986.0000E 5/98 ©1994 Bunn-O-Matic Corporation

ELECTRICAL REQUIREMENTS

The stands have an attached cordset and requires 2-wire grounded service rated 120 volts ac, single phase, 90 watts total for the 1SH, 180 watts total for the 2SH, or 2-wire grounded service rated 230 volts ac, single phase, 90 watts total for the 1SH, 180 watts total for the 2SH.

CLEANING

The use of a damp cloth rinsed in any mild, nonabrasive, liquid detergent is recommended for cleaning all surfaces on Bunn-O-Matic equipment.

TROUBLESHOOTING

A troubleshooting guide is provided to suggest probable causes and remedies for the most likely problems encountered. If the problem remains after exhausting the troubleshooting steps, contact the Bunn-O-Matic Technical Service Department.

- Inspection, testing, and repair of electrical equipment should be performed only by qualified service personnel.
- All electronic components have 120 - 240 volt ac and low voltage dc potential on their terminals. Shorting of terminals or the application of external voltages may result in board failure.
- Intermittent operation of electronic circuit boards is unlikely. Board failure will normally be permanent. If an intermittent condition is encountered, the cause will likely be a contact or a loose connection at a terminal or crimp.

WARNING

- Exercise extreme caution when servicing electrical equipment.
- Disconnect power source when servicing, except when electrical tests are specified.
- Follow recommended service procedures.
- Replace all protective shields or safety notices.

Problem	Probable Cause	Remedy
Server will not heat	1. No power or incorrect voltage.	Be sure the stand is connected to the power source.
	2. Circuit breaker	A) Check and reset if necessary B) Refer to Service - Circuit breaker for test procedures. See page 4
	3. Receptacle contact	Clean or replace. See page 5
	4. Transformer	Refer to Service - Transformer for test procedures. See page 7
	5. Rectifier	Refer to Service - Rectifier for test procedures. See page 6

SERVICE

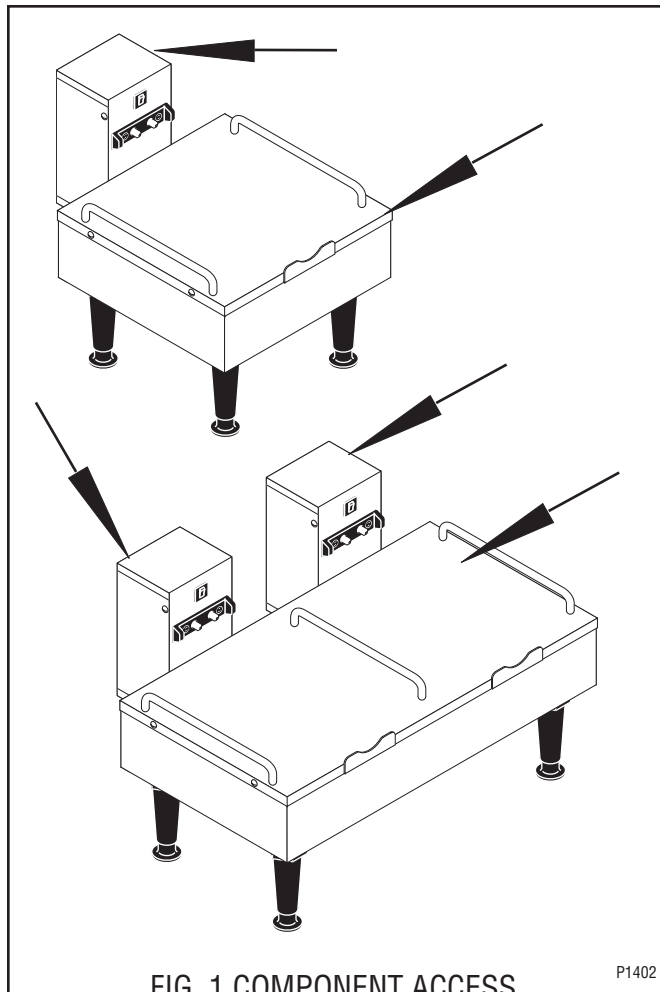
This section provides procedures for testing and replacing various major components used in these stands should service become necessary. Refer to Troubleshooting for assistance in determining the cause of any problem.

WARNING - Inspection, testing, and repair of electrical equipment should be performed only by qualified service personnel. The stands should be unplugged when servicing, except when electrical tests are required and the test procedure specifically states to connect the stand to the power source.

COMPONENT ACCESS

WARNING - Disconnect the stand from the power source before the removal of any panel or the replacement of any component.

All components are accessible by the removal of the receptacle cover and the stand cover.



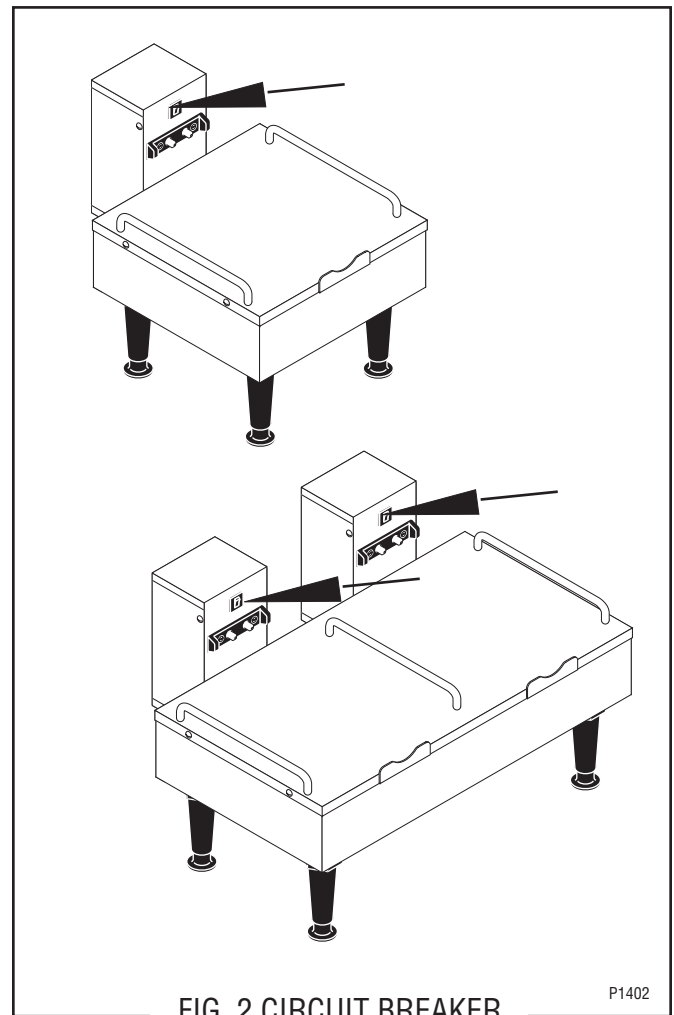
The receptacle cover is attached with four #6-32 truss head locking screws.

The stand cover is attached with four #6-32 truss head locking screws.

Contents

Circuit Breaker	4
Receptacle (Spring Contacts).....	5
Rectifier	6
Transformer	7
Wiring Diagrams	9

CIRCUIT BREAKER



Location

The circuit breaker(s) is located on the upper part of the receptacle bracket just above the spring contact receptacle(s) assembly.

SERVICE (cont.)

Test Procedures

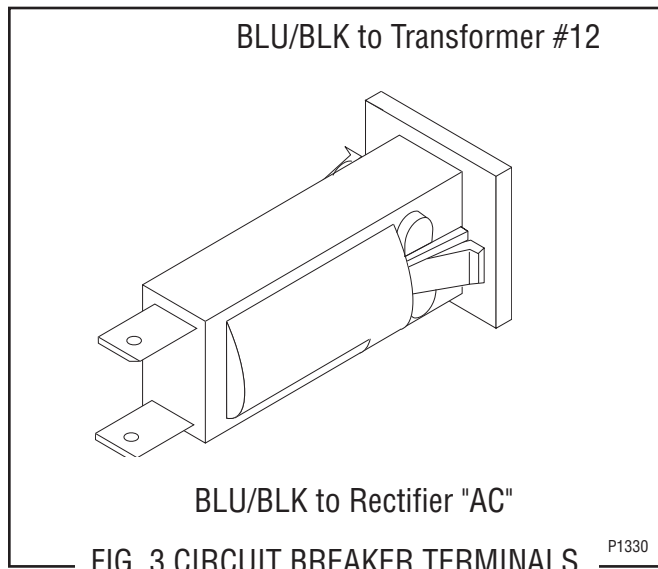
1. Disconnect the stand from the power source.
2. Remove the wires from the circuit breaker.
3. Check for continuity between the circuit breaker terminals. Continuity must be present between the terminals.

If continuity is present as described the circuit breaker is functioning properly.

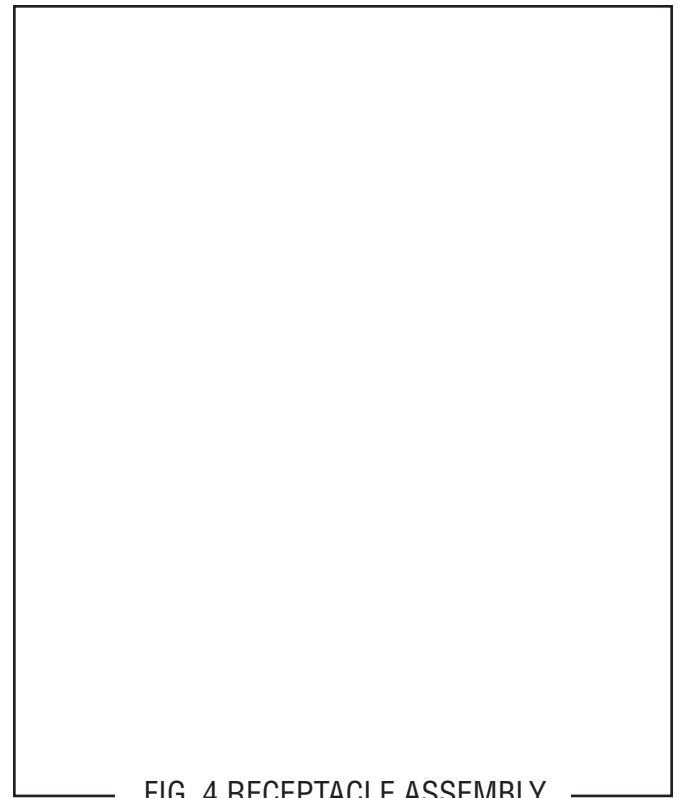
If continuity is not present as described, press reset button and repeat step #3, if continuity is not present as described, replace the circuit breaker.

Removal and Replacement:

1. Remove the wires from the circuit breaker.
2. Compress the clips on the back side of the receptacle bracket and gently push the circuit breaker through the opening in the receptacle bracket.
3. Push the new circuit breaker into the opening in the receptacle bracket until the clips snap into position.
4. Reconnect the wires to the circuit breaker.
5. Refer to Fig. 3 when reconnecting the wires.



RECEPTACLE ASSEMBLY (SPRING CONTACT)



Location:

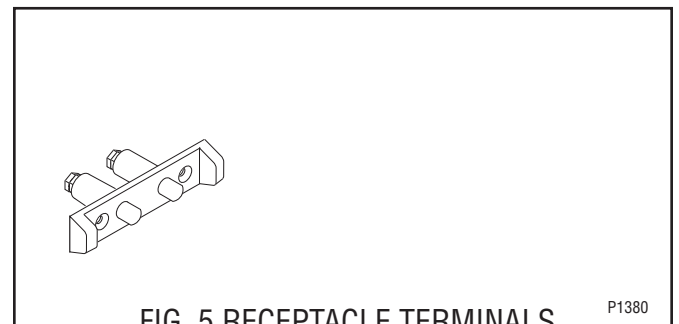
The receptacle assembly is located on the lower front of the receptacle bracket just below the circuit breaker.

Test Procedures:

1. Clean or replace spring contacts.

Removal and Replacement:

1. Disconnect the stand from the power source.
2. Disconnect the wires from the receptacle assembly.
3. Remove the two #6-32 flat head screws securing the receptacle to the receptacle bracket.
4. Remove and discard receptacle.
5. Install new receptacle in the receptacle bracket and secure with two #6-32 flat head screws..
6. Refer to Fig. 5 and reconnect the wires.



SERVICE (cont.)

RECTIFIER

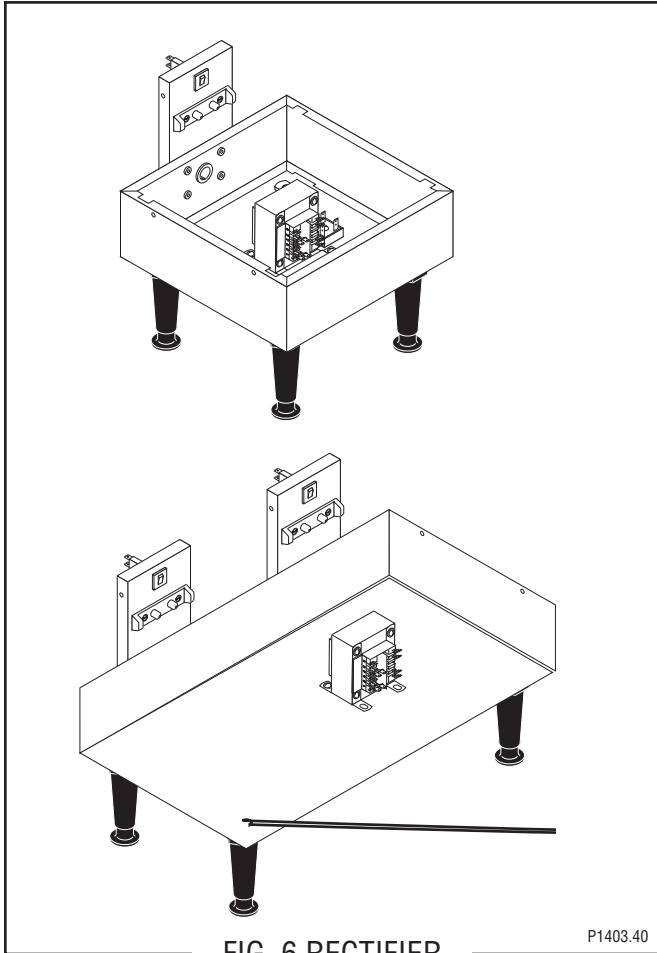


FIG. 6 RECTIFIER

Location:

The rectifier(s) is located inside on the right side of the stand housing just to the right of the transformer for 1SH Stand and on the right and left side of the stand housing for 2SH Stand.

Test Procedures:

1. Disconnect the stand from the power source.
2. Remove the red wire and the black wire from the rectifier.
3. Check the voltage across the (+) and (-) terminals on the rectifier with a voltmeter. Connect the stand to the power source. The indication must be 24 volts dc.
4. Disconnect the stand from the power source.

If voltage is present as described, the rectifier is operating properly.

If voltage is not present as described, refer to the stand wiring diagrams and check the stand wiring harness.

RECTIFIERS (cont.)

Removal and Replacement:

1. Disconnect the wires from the rectifier.
2. Remove the #6-32 truss head screw securing the rectifier to the stand housing.
3. Remove the rectifier and discard.
4. Install new rectifier in the stand housing and secure with a #6-32 truss head screw.
5. Refer to Fig 7 and reconnect the wires.

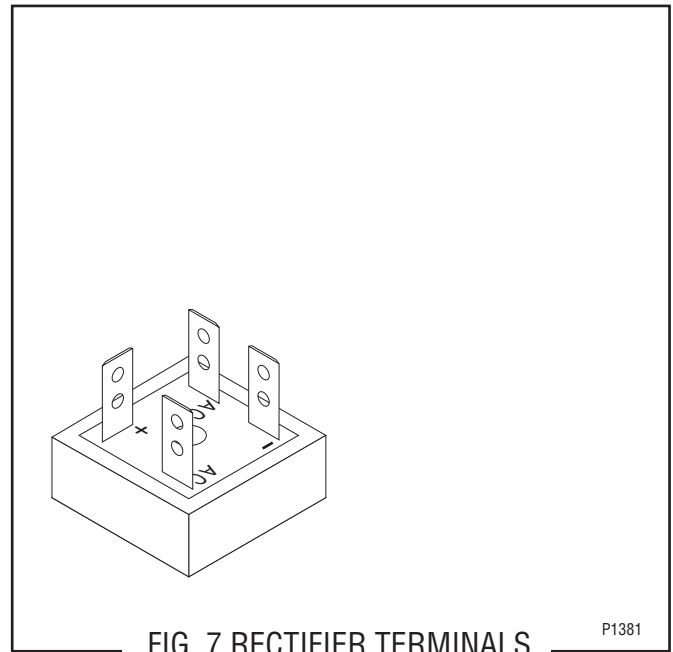
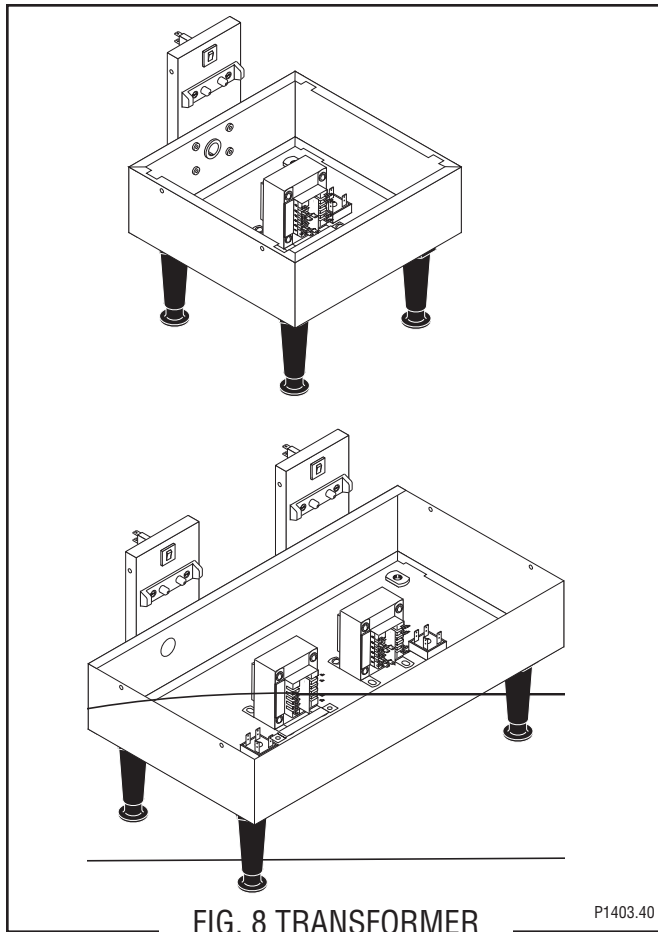


FIG. 7 RECTIFIER TERMINALS

SERVICE (cont.)

TRANSFORMER



Location:

The transformer(s) is located in the stand housing on the base plate.

Test Procedures:

1. Disconnect the stand from the power source.
2. Disconnect the black wire from terminal #5 and the white or red wire from terminal # 6.
3. Check the voltage across the black and white or red wire with a voltmeter. Connect the stand to the power supply. The indication must be:
 - a.) 120 volts ac for two wire 120 volt models.
 - b.) 200 to 240 volts ac for two wire 200 or 240 volt models.
4. Disconnect the stand from the power supply.

If voltage is present as described reconnect the wires and proceed to #5.

If voltage is not present as described, refer to the wiring diagrams and check the stand wiring harness.

SERVICE (cont.)

TRANSFORMER (cont.)

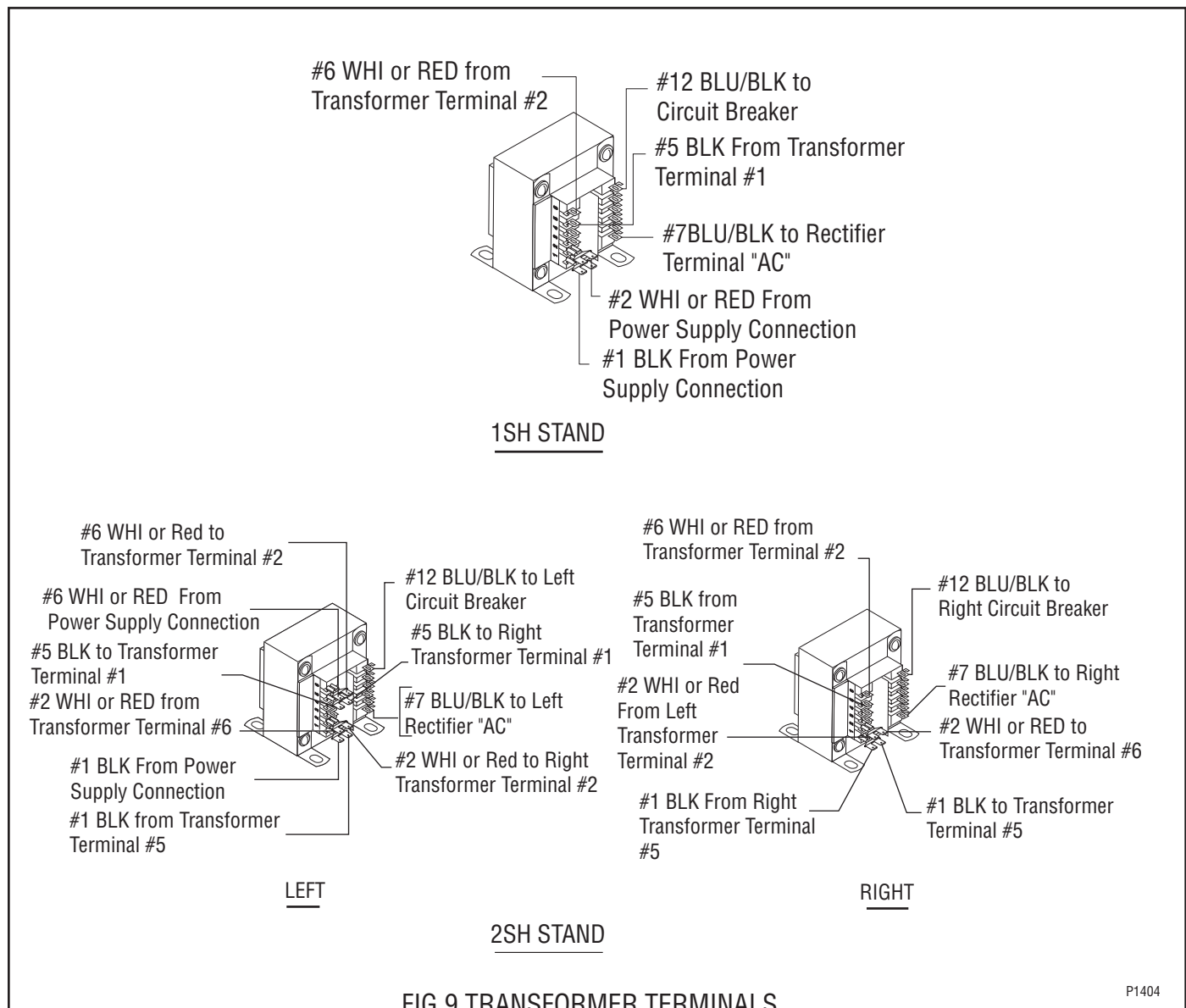
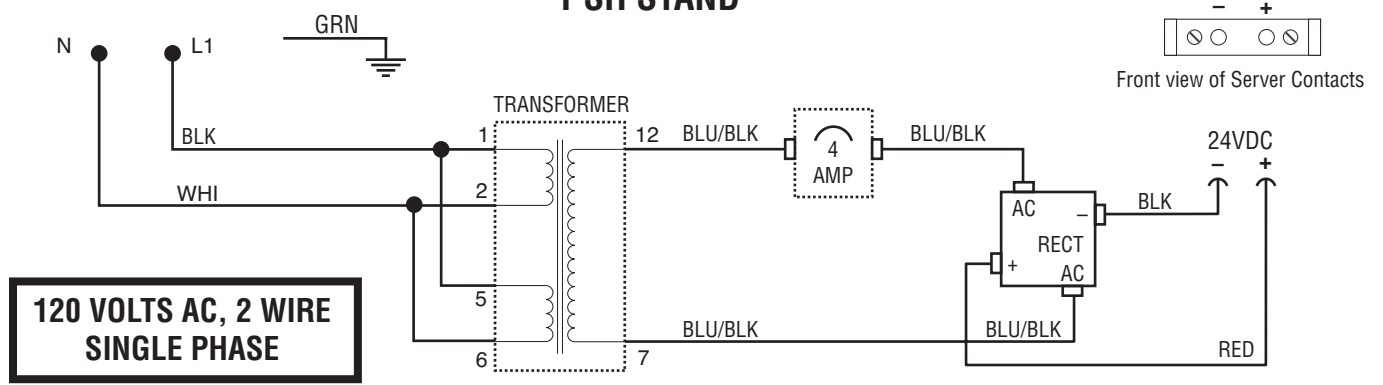


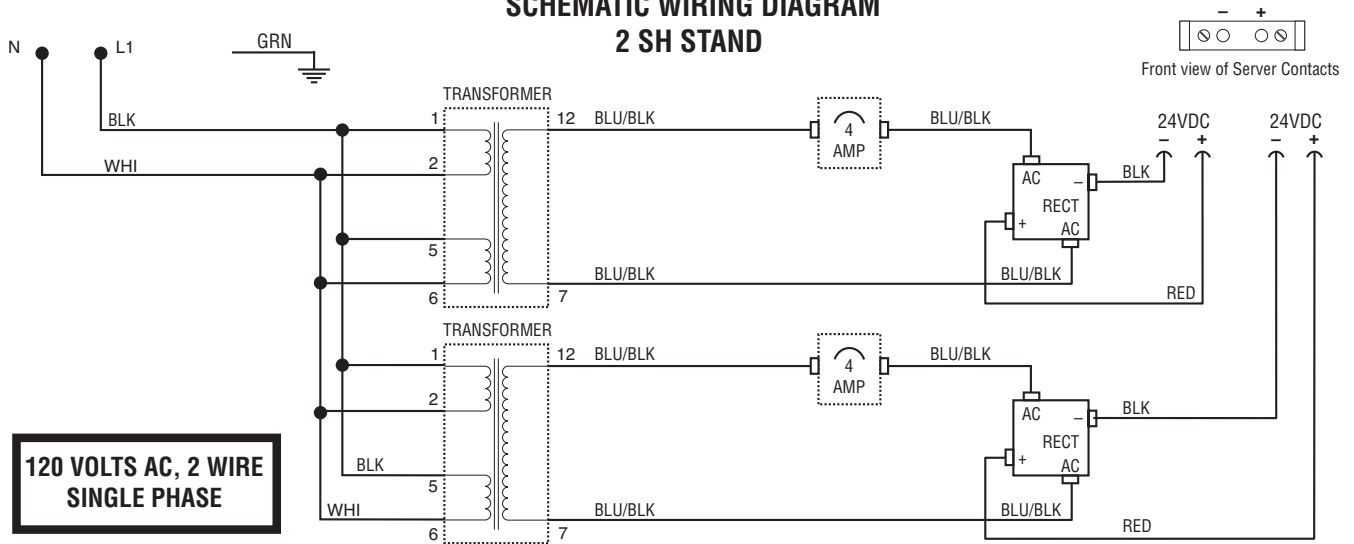
FIG.9 TRANSFORMER TERMINALS

P1404

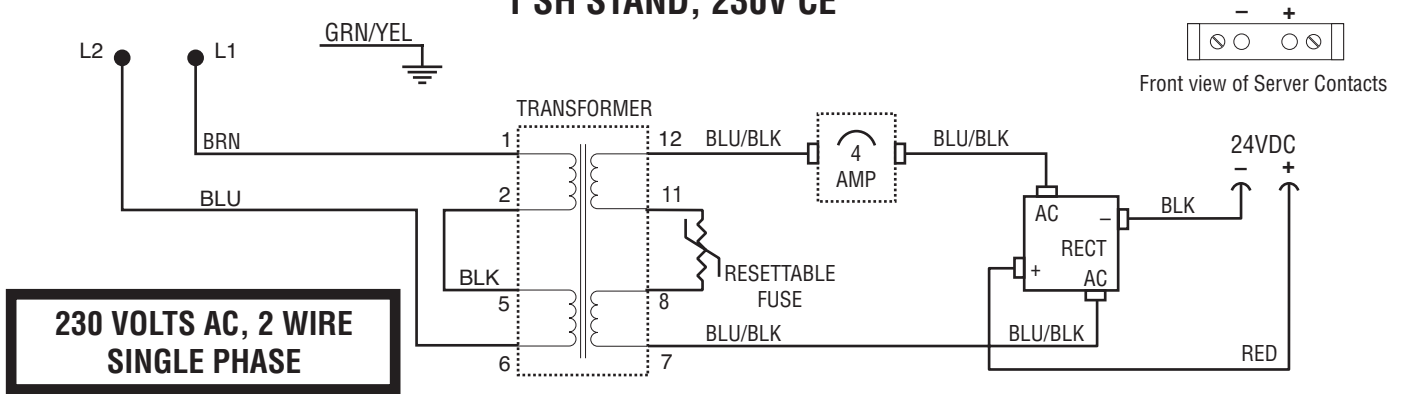
SCHEMATIC WIRING DIAGRAM 1 SH STAND



SCHEMATIC WIRING DIAGRAM 2 SH STAND



SCHEMATIC WIRING DIAGRAM 1 SH STAND, 230V CE



SCHEMATIC WIRING DIAGRAM 2 SH STAND, 230V CE

